

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: November 8, 2001, 23:33:07 ; Search time 244.42 Seconds
(without alignments)
15847.824 Million cell updates/sec

Title: US-09-227-881-3

Perfect score: 6169

Sequence: 1 atcttgctgacgttacctc.....cttgcccccctcatgctcag 6169

Scoring table:

OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 730101 seqs, 313950809 residues

Word size : 8

Total number of hits satisfying chosen parameters: 1169174

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

N_Geneseq_0601:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6169	100.0	6169	19	AAVS1368 Human TIGR upstream
2	6169	100.0	6169	21	AAVS7486 A TIGR (trabecular
3	5220	84.6	5271	21	AAAS7511 A TIGR (trabecular
4	5008	81.2	5300	21	AAAS7484 A TIGR (trabecular
5	5007	81.2	5289	19	AAVS1361 Human TIGR promote
6	4957	80.4	5300	19	AAVS1362 Human TIGR promote
7	4957	80.4	5300	19	AAVS1363 Human TIGR promote
8	4957	80.4	5300	19	AAVS1365 Human TIGR promote
9	4957	80.4	5300	19	AAVS1366 Human TIGR promote
10	4957	80.4	5300	19	AAVS1367 Human TIGR promote
11	4731	76.7	5304	19	AAVS1364 Human TIGR promote

12	4476	72.6	5304	21	AAAS7485	A TIGR (trabecular
13	2285	37.0	2800	21	AAZ37968	Human GLC1A gene e
14	885	11.1	3493	19	AAV37618	Human glaucoma ass
15	640	10.4	1548	19	AAVS1391	Human TIGR CDNA.
16	640	10.4	1548	21	AAAS7509	CDNA encoding trab
17	640	10.4	1890	20	AAAS7606	Human TIGR/MYC ge
18	640	10.4	1999	20	AAV81910	Human trabecular m
19	640	10.4	1999	20	AAV08904	TIGR protein codin
20	640	10.4	1999	22	AAAC87528	Human TIGR CDNA, S
21	640	10.4	2000	19	AAV33484	Trabecular meshwor
22	604	9.8	1512	20	AAV08905	TIGR protein codin
23	604	9.8	1512	22	AAAC87529	Human TIGR CDNA op
24	604	9.8	1515	21	AAZ37974	Human GLC1A polype
25	553	5.9	1512	19	AAV37619	Human glaucoma ass
26	366	5.9	1969	17	AAZ30152	Trabecular meshwor
27	366	5.9	1969	19	AAV28331	Nucleotide sequenc
28	330	5.3	1491	17	AAZ30153	Trabecular meshwor
29	283	4.6	283	21	AAAS7514	Trabecular meshwor
30	227	3.7	227	21	AAAS7515	Trabecular meshwor
31	51	0.8	1491	21	AAZ97030	Human secreted pro
32	49	0.8	177	21	AAZ14260	Human secreted pro
33	49	0.8	241	21	AAZ37328	Human secreted pro
34	49	0.8	3065	21	AAZ00128	Human NIP2b CDNA.
35	47	0.8	344	14	AAZ0651	Human secreted pro
36	45	0.7	286	21	AAZ3207	Human secreted pro
37	44	0.7	119	21	AAZ22144	Human secreted pro
38	44	0.7	1014	20	AAZ30166	Human secreted pro
39	44	0.7	2274	21	AAZ52081	Human cellular ret
40	43	0.7	227	21	AAZ41647	Human secreted exp
41	43	0.7	654	14	AAZ01945	Human colon cancer
42	43	0.7	2008	19	AAV39297	Human RAD54 nuclel
43	43	0.7	2824	21	AAZ59843	Human secreted pro
44	43	0.7	2900	20	AAZ17772	SAR-2 polypeptide
45	43	0.7	12729	22	AAZ97873	Human neuroblastom

ALIGNMENTS

RESULT 1	
AAVS1368	
ID	AAVS1368 standard; DNA; 6169 BP.
XX	
AC	AAVS1368;
XX	
DT	27-OCR-1998 (first entry)
XX	
DE	Human TIGR upstream region and exon 1 DNA.
XX	
KW	TIGR; trabecular meshwork induced glucocorticoid response protein; human;
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.
XX	
OS	Homo sapiens.
XX	
FH	key
FT	exon
FT	Location/Qualifiers
FT	/*tag= a
FT	/number= 1
FT	5337..6169
FT	CDS
FT	/*tag= b
FT	/product= "TIGR"
FT	/note= "partial coding sequence"
FT	5941..6169
FT	/*tag= c
FT	/number= 1
FT	/note= "partial intron sequence"
XX	
PN	W09832850-A1.
XX	
PD	30-JUL-1998.
XX	
PF	09-JAN-1998; 98WC-US00468.
XX	

PR 26-SEP-1997: 97US-0938669.
 PR 28-JAN-1997: 97US-0791154.
 XX (REGC) UNIV CALIFORNIA.
 XX
 XX Chen H, Chen P, Nguyen TD, Polansky JR;
 PI
 XX WPI: 1998-427946/36.
 DR
 XX
 XX Use of TIGR nucleic acid sequences - used for, e.g. developing
 PT products for diagnosis, prognosis and treatment of glaucoma
 XX
 XX
 PS Claim 37: Fig 3: 105pp: English.
 XX
 CC This sequence is a trabecular meshwork induced glucocorticoid response
 CC protein (TIGR) upstream region and exon 1. This DNA sequence can be used
 CC in a method for diagnosing glaucoma in a patient. The method involves the
 CC detection of polymorphisms whose presence is predictive of a mutation
 CC affecting TIGR response in the patient and can be diagnostic of glaucoma
 CC or steroid sensitivity. Base substitutions and base additions upstream of
 CC and within TIGR exons can also be used to diagnose glaucoma.
 CC
 XX
 XX Sequence 6169 BP: 1702 A; 1389 C; 1491 G; 1587 T; 0 other;

Query Match 100.0%: Score 6169; DB 19; Length 6169;
 Best Local Similarity 100.0%: Pred. No. 0;
 Matches 6169; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 1 atctgttcagtttaaccgaaggcattatggaatgaaatggaataaccatgtgaaag 60
 OY 61 tccataaactgtatagctccatcccgatgtagtcttcttgscaggatgataaagatca 120
 |||||
 Db 61 tccataaactgtatagctccatcccgatgtagtcttcttgscaggatgataaagatca 120
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 Db 121 ggaagaagaagatgacagcttagcagagtgccagagctgctgctcttatttagtga 180
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 Db 181 cgaatgtctcctcgaacgaagcattcttcagaagaacatcacatccaaatagtataac 240
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Oy	3601 cctgattcttaatactataatttcccttaacaaagctgaaatctctgtgaaagtcacaag	3660
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[illegible]

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QY	5101	caaaagactctcgggaaggtattcttcctaagaaactctgtctggcagcgtgaaagcaaccc	5160
Db	5101	caaaagactctcgggaaggtattcttcctaagaaactctgtctggcagcgtgaaagcaaccc	5160
QY	5161	ccctgtgcacagcccccacccagcctcaacgtgtgcccactctgtctctccccaatgaaggtcgt	5220
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QY	5221	gtctcccaagtataataaactctctcgggaactcctgggcatagacagcaaggtccacactc	5280
Db	5221	gtctcccaagtataataaactctctcgggaactcctcgggcatagacagcaaggtccacactc	5280
QY	5281	caggacaactctcacaacagacagagactctccagaaggagagctccacaagaactctgcaatga	5340
Db	5281	caggacaactctcacaacagacagagactctccagaaggagagctccacaagaactctgcaatga	5340
QY	5341	ggcttctctgtgcacgtctgtctgcagactcttgggagcttgagaatgcacagctgtccagctgtgc	5400
Db	5341	ggcttctctgtgcacgtctgtctgcagactcttgggagcttgagaatgcacagctgtccagctgtgc	5400
QY	5401	tctctggcctcctcctgtgtgtggatgtctggggccagagacagctcaagctcaggaagccaatg	5460
Db	5401	tctctggcctcctcctgtgtgtggatgtctggggccagagacagctcaagctcaggaagccaatg	5460
QY	5461	accagagatgggcacgatgcacaaataaaccttcagcttgaccagctcccaatgaatccagactctgc	5520
Db	5461	accagagatgggcacgatgcacaaataaaccttcagcttgaccagctcccaatgaatccagactctgc	5520
QY	5521	cagagcagagacagcagacatgtcagatccataaactctacaagagagacagcagacacacac	5580
Db	5521	cagagcagagacagcagacatgtcagatccataaactctacaagagagacagcagacacacac	5580
QY	5581	gcttagaacctctggagggccacaagaactcagactcctctcctggagagagctctctccacaaat	5640
Db	5581	gcttagaacctctggagggccacaagaactcagactcctctcctggagagagctctctccacaaat	5640
QY	5641	tgaaccttgacacagcgtgcgcacagccccagaagagagacccagaagggtcgtcagagggaggtcgtg	5700
Db	5641	tgaaccttgacacagcgtgcgcacagccccagaagagagacccagaagggtcgtcagagggaggtcgtg	5700
QY	5701	gcaaccttgagggcgggagcggagacacagctcgtgaaacccacaacagagagtgtggagactgct	5760
Db	5701	gcaaccttgagggcgggagcgggagacacagctcgtgaaacccacaacagagagtgtggagactgct	5760
QY	5761	acagacaactctctccggagacaagtctcgtgtggagagagagagagagagcagctaaaggcag	5820
Db	5761	acagacaactctctccggagacaagtctcgtgtggagagagagagagagagcagctaaaggcag	5820
QY	5821	aaaaatggagaatctctggccagagaggtcttgaaagacagcagccagagaggtctgacaaggtcgtga	5880
Db	5821	aaaaatggagaatctctggccagagaggtcttgaaagacagcagccagagaggtctgacaaggtcgtga	5880
QY	5881	ggggccagctgtccccaacaccccgagacaactctcgtggagctgtgcacaacagagctccacagagag	5940
Db	5881	ggggccagctgtgtccccaacaccccgagacaactctcgtggagctgtgcacaacagagctccacagagag	5940
QY	5941	gtaaagaatgcagagctggggggagactctgaggtctcagcaggtgtgataatgtcgtctgatacctgt	6000
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QY	6001	ctacaagcgtcctccagagctctccctgcctctctccctcagagacgtgcacagctagacaagaac	6060
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QY	6061	agatgaatctaaagaaacacacagatcaactctcaagatattacagtaaatcttgacctgtg	6120
Db	6061	agatgaatctaaagaaacacacagatcaactctcaagatattacagtaaatcttgacctgtg	6120
QY	6121	agcttcaattagatagtggtctcagaaggtctctgtgcctctccatagtcag	6169

Db	6121	agcttcatttagatagtcgttcagagttctctgtgcccctccacgcaag	6169
RESULT	2		
AAAS7486			
ID	AAAS7486	standard; DNA: 6169 BP.	
XX			
AC	AAAS7486:		
XX			
DT	20-OCT-2000	(first entry)	
XX			
DE	A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter		
XX			
KM	TIGR: trabecular meshwork inducible glucocorticoid receptor; promoter;		
KM	glaucoma; steroid sensitivity; progressive ocular hypertension;		
XX	vision loss; ss.		
OS	Homo sapiens.		
XX			
FH	Key	Location/Qualifiers	
FT	mutation	replace (4337, G)	
FT		/*tag- a	
FT	mutation	/note- "TIGRmt1 mutant"	
FT		replace (4950, T)	
FT		/*tag- b	
FT	mutation	/note- "TIGRmt2 mutant"	
FT		4998	
FT		/*tag- c	
FT	mutation	/note- "GrgT added to produce TIGRmt3 mutant"	
FT		replace (4256, G)	
FT		/*tag- d	
FT		/note- "TIGRmt4 mutant"	
FT	mutation	replace (5113, C)	
FT		/*tag- e	
FT		/note- "TIGRmt11 mutant"	
XX			
PN	WO200042220-A1.		
XX			
PD	20-JUL-2000.		
XX			
PE	11-JAN-2000; 2000WO-US00559.		
XX			
PR	11-JAN-1999; 99US-0227881.		
PR	07-MAY-1999; 99US-0306828.		
XX			
PA	(REGC) UNIV CALIFORNIA.		
XX			
PI	Nguyen TD, Polansky JR, Chen P, Chen H;		
XX			
DR	WPI: 2000-491060/43.		
XX			
PT	Diagnosis, prognosis and treatment of glaucoma, based on detecting		
PT	specific polymorphisms in the promoter of the trabecular meshwork		
PT	inducible glucocorticoid receptor gene -		
XX			
PS	Claim 37; Page 105-107; 122pp; English.		
XX			
CC	The present sequence represents a TIGR (trabecular meshwork inducible		
CC	glucocorticoid receptor) promoter. The specification describes a method		
CC	for the diagnosis, prognosis and treatment of glaucoma, based on		
CC	detecting specific polymorphisms in the promoter of the TIGR gene.		
CC	The method is used for diagnosis and prognosis of glaucoma (of all		
CC	types), steroid sensitivity and progressive ocular hypertension that		
CC	leads to loss of vision. Glaucoma can be treated by administering an		
CC	agent that binds to cis-acting elements within the TIGR promoter. The		
CC	TIGR promoter (or other regulatory regions) can be used to express		
CC	homologous or heterologous genes, particularly for tissue-specific		
CC	expression of therapeutic transgenes for treating glaucoma, also to		
CC	generate transgenic animals and in screening for compounds (specific		
CC	modulators) with diagnostic or therapeutic potential. Fragments of the		
CC	TIGR sequence can be used as amplification primers or probes, e.g., for		
CC	isolating related sequences in non-human animals.		

XX	Sequence	6169 BP; 1702 A; 1389 C; 1491 G; 1587 T; 0 other:
50		
	Query Match	100.0%; Score 6169; DB 21; Length 6169;
	Best Local Similarity	100.0%; Pred. No. 0;
	Matches 6169; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
OY	1	atccttctcagtttaacctgaaggtctatataatgaatgaatgataacaaatgtgaag 60
DB	1	atccttctcagtttaacctgaaggtctatataatgaatgaatgataacaaatgtgaag 60
OY	61	tcccttaaacgttatagacctccatccggatgtatgtctcttggcagatgataagaatca 120
DB	61	tcccttaaacgttatagacctccatccggatgtatgtctcttggcagatgataagaatca 120
OY	121	ggaagaagagatataccacgtttagccaagtgtcccaagctgtgtctcgtctatttagta 180
DB	121	ggaagaagagatataccacgtttagccaagtgtcccaagctgtgtctcgtctatttagta 180
OY	181	cagatgtgtctccctgaacgaagaactatttcttcaggaaactccatccaatagttaactc 240
DB	181	cagatgtgtctccctgaacgaagaactatttcttcaggaaactccatccaatagttaactc 240
OY	241	catcaaacacggagctcaagaacagaaatatagtggcaccttgcacgaagaaataatgcag 300
DB	241	catcaaacacggagctcaagaacagaaatatagtggcaccttgcacgaagaaataatgcag 300
OY	301	gagagcaaatatagatgaaataataaactttcccttgttcttaattctcaggaaaaatgt 360
DB	301	gagagcaaatatagatgaaataataaactttcccttgttcttaattctcaggaaaaatgt 360
OY	361	atgagagcaaaaataatcaatgaataagaagaaacgcctcagaaagaaagatgtctccaact 420
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OY	421	taattaaagtatttcttcccttgggaagagacccctccatctgtatgtgtggaaatctggga 480
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DB	481	aaacttcaaaagacatgatatctgaatcagaatcccaaggaagtgtatttatttaaaaaacagat 540
OY	541	ggacatcacctcttgggagaggaagctcaggaaggttcacgttttagacaaagacatacaataac 600
DB	541	ggacatcacctcttgggagaggaagctcaggaaggttcacgttttagacaaagacatacaataac 600
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DB	601	agcaaaaatcaaaaattccgcgaatgtcaggaagaaatctgggaacttggaaagcttctaacc 660
OY	661	agtgtatgaagagtttgaacatcttgcacacactcccgctctataccagggaaacacaaaa 720
DB	661	agtgtatgaagagtttgaacatcttgcacacactcccgctctataccagggaaacacaaaa 720
OY	721	attgaactgggtctaagaccttgaactttcaagggaataatgaaaaaatcagagcaaaaacaaa 780
DB	721	attgaactgggtctaagaccttgaactttcaagggaataatgaaaaaatcagagcaaaaacaaa 780
OY	781	gacatggtttaaaaggaacacagaacaattgttggacctttaaagcagagtgcccttaaga 840
DB	781	gacatggtttaaaaggaacacagaacaattgttggacctttaaagcagagtgcccttaaga 840
OY	841	gggacccctgaagacatttgcctctttagaagagccagtttcttaagagatcttaagaacct 900
DB	841	gggacccctgaagacatttgcctctttagaagagccagtttcttaagagatcttaagaacct 900
OY	901	ttgaaagaatcatatgaattttaaacaattttaaagataaaacaataatgcgtatgataatcag 960
DB	901	ttgaaagaatcatatgaattttaaacaattttaaagataaaacaataatgcgtatgataatcag 960
OY	961	tttaaacatctgggtcccaacttttaaaagctcaagcatatacaagataacgctgtcccactcc 1020

Dh	961	lctaaagacubvggltccccaattcttaaaagacaaaggaataagtaacgltccccagctcc	1020
Qy	1021	ggatcagcgcaagaatactcaataaatactacgtctgctcccaaccttaactttctcgaatgtac	1080
Dh	1021	ggatcagcgcaagaatactcaataaatactacgtctgctcccaaccttaactttctcgaatgtac	1080
Qy	1081	tgtaataagcctcaacaacagaccgaatgtctgtacactataccaacatactataaccaaa	1140
Dh	1081	tgtaataagcctcaacaacagaccgaatgtctgtacactataccaacatactataaccaaa	1140
Qy	1141	gtagcctcaacatgtttaacgltgcatctcaatgaaggtcccatataaagccactccccc	1200
Dh	1141	gtagcctcaacatgtttaacgltgcatctcaatgaaggtcccatataaagccactccccc	1200
Qy	1201	tgtagagcccaatcccgctcccaacgaagatctcccaactctagaactctgcacacgaatgt	1260
Dh	1201	tgtagagcccaatcccgctcccaacgaagatctcccaactctagaactctgcacacgaatgt	1260
Qy	1261	tacagccgaagatcccgltgaaggtctgtctctacaacctcaactcgtatacgaatgt	1320
Dh	1261	tacagccgaagatcccgltgaaggtctgtctctacaacctcaactcgtatacgaatgt	1320
Qy	1321	accctgaagctcacctgcacaacctctgcctcccaaggttcaagcaattctccgtctcaagctcc	1380
Dh	1321	accctgaagctcacctgcacaacctctgcctcccaaggttcaagcaattctccgtctcaagctcc	1380
Qy	1381	cgcgtagcttggaactcaagggcgaacgcgcgcgaatttttgtatgtttagtagaataatgg	1440
Dh	1381	cgcgtagcttggaactcaagggcgaacgcgcgcgaatttttgtatgtttagtagaataatgg	1440
Qy	1441	gtctcaacatactaaagcccggtctgtctgaactctcgaacctcaagggtatcccaaccaactc	1500
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Qy	1561	ttaaataaggaataaactctggaatctgtttaacaaacaaacgaaggaacaaagaactgtga	1620
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Qy	1861	tgaagcccccggaaggttctctctcccaagcttggtgggaagccttgcaagacccggtctcc	1920
Dh	1861	tgaagcccccggaaggttctctctcccaagcttggtgggaagccttgcaagacccggtctcc	1920
Qy	1921	tgggtgtccctgaagaaacctgcgaacccgtgacaacgtgtgtgtgtttatccaactctcaag	1980
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Qy	1981	gaactgtgtacttcaattctctgtgtatgaactgttcaatcccaaggaatctatgtacaatt	2040
Dh	1981	gaactgtgtacttcaattctctgtgtatgaactgttcaatcccaaggaatctatgtacaatt	2040
Qy	2041	tatttgtaactatactgcgcaagacaaagaaatgtgtgaacaaagcagtactgtc	2100

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|||||

[illegible]

RESULT 3

AAA57511
ID AAA57511 standard; DNA; 5271 BP.

AC AAA57511;

DT 20-OCT-2000 (first entry)

A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter.

TIGR; trabecular meshwork inducible glucocorticoid receptor; promoter;

vision loss; ss.

US Homo sapiens.
xy

[illegible]¹

FT	mutation	replace (4337, G)
FT		/tag= a
FT		/note= "TIGRmt1 mutant"
FT	mutation	replace (4950, T)
FT		/tag= b
FT		/note= "TIGRmt2 mutant"
FT	mutation	4998
FT		/tag= c
FT		/note= "GTGT added to produce TIGRmt3 mutant"
FT	mutation	replace (4256, G)
FT		/tag= d
FT		/note= "TIGRmt4 mutant"
FT	mutation	replace (5113, C)
FT		/tag= e
FT		/note= "TIGRmt11 mutant"
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PN	WO20042220-A1.	
XX		
PD	20-JUL-2000.	
XX		
PF	11-JAN-2000; 2000WO-US00559.	
XX		
PR	11-JAN-1999; 99US-0227881.	
PR	07-MAY-1999; 99US-0306828.	
XX		
PA	(RECG) UNIV CALIFORNIA.	
XX		
PI	Nguyen TD, Polansky JR, Chen P, Chen H;	
XX		
DR	WPI; 2000-491060/43.	
XX		
PT	Diagnosis, prognosis and treatment of glaucoma, based on detecting specific polymorphisms in the promoter of the trabecular meshwork inducible glucocorticoid receptor gene -	
PT	Inducible glucocorticoid receptor gene -	
XX		
PS	Claim 79; Page 117-119; 122pp; English.	
CC		
XX	The present sequence represents a TIGR (trabecular meshwork inducible	
CC	glucocorticoid receptor) promoter, isolated from an individual	
CC	without glaucoma. The specification describes a method for the diagnosis,	
CC	prognosis and treatment of glaucoma, based on detecting specific	
CC	polymorphisms in the promoter of the TIGR gene. The method is used for	
CC	diagnosis and prognosis of glaucoma (of all types), steroid sensitivity	
CC	and progressive ocular hypertension that leads to loss of vision.	
CC	Glaucoma can be treated by administering an agent that binds to	
CC	disrupting elements within the TIGR promoter. The TIGR promoter (or	
CC	heterologous regions) can be used to express homologous or	
CC	heterologous genes, particularly for tissue-specific expression of	
CC	therapeutic transgenes for treating glaucoma, also to generate	
CC	transgenic animals and in screening for compounds (specific modulators)	
CC	with diagnostic or therapeutic potential. Fragments of the TIGR	
CC	sequence can be used as amplification primers or probes, e.g. for	
CC	isolating related sequences in non-human animals.	
XX		
SO	Sequence 5271 BP; 1476 A; 1138 C; 1231 G; 1426 T; 0 other;	

Query Match	84.68;	Score 5220;	DB 21;	Length 5271;
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Matches 5270; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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61 tcctataactgtatagcctccatctcgatgtatgtctcttggcagatgataagaatca 120

b1 tcctataaactgtatagcctccattcggatgttatgtcttcttgccagatgtataagaatca 120

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171 ygaagaaay lalccacylcagccaag cglccagucnglclccgcclcaclccag clua 180

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Oy	301	gagagcaaaatga	tgaataaaaataac	cttcccttgctt	ttaattccagaaaaa	tg	360			
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Oy	361	atgagagccaaat	tcaatgaataagaaaacag	ctcagaaaaa	atg	tltccaaat	tgg	420		
Db	361	atgagagccaaat	tcaatgaataagaaaacag	ctcagaaaaa	atg	tltccaaat	tgg	420		
Oy	421	tatatgaagtatt	gtgttccttgaggaaagac	cttcacatg	tagtttga	tgtgaaatggaa	480			
Db	421	tatatgaagtatt	gtgttccttgaggaaagac	cttcacatg	tagtttga	tgtgaaatggaa	480			
Oy	481	aaatgctcaaaaag	catagtatgcatacccaag	tgaatactta	ttaataaaacacat	540				
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Db	721	attgac	tgyggtcaagcc	tgcagactt	tccaaaggaata	tgaaaaaac	tgaagagcaaaa	780		
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FT mutation
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FT /note- "TIGRmt11 mutant"
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FT /*tag- f
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FT /*tag- g
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XX 11-JAN-1999; 99US-0227881.
PR 07-MAY-1999; 99US-0306028.
XX (REGC ) UNIV CALIFORNIA.
XX Nguyen TD, Polansky JR, Chen P, Chen H;
PI WPI: 2000-491060/43.
XX DR
XX PT Diagnosis, prognosis and treatment of glaucoma, based on detecting
XX PT specific polymorphisms in the promoter of the trabecular meshwork
XX PT inducible glucocorticoid receptor gene -
XX PS Claim 34; Fig 1A-E; 122pp; English.
XX CC The present sequence represents a TIGR (trabecular meshwork inducible
XX CC glucocorticoid receptor) promoter, isolated from an individual
XX CC without glaucoma. The specification describes a method for the diagnosis,
XX CC prognosis and treatment of glaucoma, based on detecting specific
XX CC polymorphisms in the promoter of the TIGR gene. The method is used for
XX CC diagnosis and prognosis of glaucoma (of all types), steroid sensitivity
XX CC and progressive ocular hypertension that leads to loss of vision.
XX CC Glaucoma can be treated by administering an agent that binds to
XX CC cis-acting elements within the TIGR promoter. The TIGR promoter (or
XX CC other regulatory regions) can be used to express homologous or
XX CC heterologous genes, particularly for tissue-specific expression of
XX CC therapeutic transgenes for treating glaucoma, also to generate
XX CC transgenic animals and in screening for compounds (specific modulators)
XX CC with diagnostic or therapeutic potential. Fragments of the TIGR
XX CC sequence can be used as amplification primers or probes, e.g. for
XX CC isolating related sequences in non-human animals.
SQ Sequence 5300 BP; 1482 A; 1152 C; 1235 G; 1431 T; 0 other;

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Query Match 81.2%; Score 5008; DB 21; Length 5300;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5298; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

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Dh	1741	cacacagcttttggttgaagcccccaacacggttaccgaaataaaggtatatacataaacag	1800

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ID	Sequence	Score	DB	Length
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Db 5100	ccaaacagagctctcggaaagtgatttcttaagaatctctgacagctgaaggaaccc	5159		
Oy 5160	ccctctgcacagcccaacccagcctcaagtggcaccctctgtcttccccaagaaggtc	5219		
Db 5160	ccctctgcacagcccaacccagcctcaagtggcaccctctgtcttccccaagaaggtc	5219		
Oy 5220	ggctcccccagatataataaacctctcttgagctcgggcatgagccagcaagccacccat	5279		
Db 5220	ggctcccccagatataataaacctctcttgagctcgggcatgagccagcaagccacccat	5279		
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Db 5280	ccaggcacctctcagcacag 5299			
RESULT 6				
AAVS1362	standard; DNA; 5300 BP.			
AAVS1362	standard; DNA; 5300 BP.			
AAVS1362	standard; DNA; 5300 BP.			
27-OCT-1998	(first entry)			
Human TIGR promoter mutant TIGRm1 DNA.				
TIGR: trabecular meshwork induced glucocorticoid response protein: human;				
diagnosis: glaucoma; polymorphism: steroid sensitivity; mutant: ss.				
Homo sapiens.				
Synthetic.				
Location/Qualifiers				
4337				
mutation				
/*tag= a				
/note= "Wild type C is replaced by G"				
MO9832850-A1.				
30-JUL-1998.				
09-JAN-1998:	98WO-US00468.			
26-SEP-1997:	97US-0938669.			
28-JAN-1997:	97US-0791154.			
(REGC) UNIV CALIFORNIA.				
Chen H, Chen P, Nguyen TD, Polansky JR:				
WPI: 1998-427946/36.				
Use of TIGR nucleic acid sequences - used for, e.g. developing				
products for diagnosis, prognosis and treatment of glaucoma				
Disclosure: Fig 2: 105pp: English.				
This sequence is a trabecular meshwork induced glucocorticoid response				
protein (TIGR) promoter mutant, TIGRm1, which is used in a method for				
diagnosing glaucoma in a patient. The method involves the detection of				
polymorphisms whose presence is predictive of a mutation affecting TIGR				
response in the patient and can be diagnostic of glaucoma or steroid				
sensitivity. Base substitutions and base additions upstream of and within				
TIGR exons can also be used to diagnose glaucoma.				
Sequence 5300 BP: 1482 A; 1151 C; 1236 G; 1431 T; 0 other;				
Query Match	80.4%	Score 4957;	DB 19;	Length 5300;
Best Local Similarity	99.9%	Pred. No. 0;		

	Matches	52977	Conservative	0	Mismatches	2	Indels	2	Gaps	2
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Db	1	atctctgttcaggtttacaccttcagggtcattatctgaaatcgaaatgaacaaatgtgaaag	60							
QY	61	tccctataaacgttatagcctcccatctcgaaatgatagtctcttggcagatgataaagaatca	120							
Db	61	tccctataaacgttatagcctcccatctcgaaatgatagtctcttggcagatgataaagaatca	120							
QY	121	ggaaagaagagatratccacagtttagccaaatgtgcacagagctgtctcgtctcttttttagga	180							
Db	121	ggaaagaagagatratccacagtttagccaaatgtgcacagagctgtctcgtctcttttttagga	180							
QY	181	cagatgttgcctccctacacgaagctattctctcagagaaacatacatalccaaatgtgtaaatc	240							
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QY	241	catcaacaagagagctaaagaacaagaaatgaaatgagacatgtgccaaagaaanaatgtccag	300							
Db	241	catcaacaagagagctaaagaacaagaaatgaaatgagacatgtgccaaagaaanaatgtccag	300							
QY	301	gagagcaaaatgaatgtgnaaaaaataaactttccctctgttttaatttcacagaaaaaatgt	360							
Db	301	gagagcaaaatgaatgtgnaaaaaataaactttccctctgttttaatttcacagaaaaaatgt	360							
QY	361	atgagagacaaataatcaatgaaatgaagaacacagctccagaaanaaagatgttcccaaatgtg	420							
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Db	541	ggcatcactctcgggaagtcgaagttcaggaagaagtcgaatgaaagagcgtgtaacaaagagcatalaac	600							
QY	601	agcaaaatcaaaaatctccgcacaaatgcaaggaaggaaaaatgtggagctcgggaagaagcttcataac	660							
Db	601	agcaaaatcaaaaatctccgcacaaatgcaaggaaggaaaaatgtggagctcgggaagaagcttcataac	660							
QY	661	agtgatactgagcagttgacccaatgtctgcacaaacctcccgctctatactccagggaaacacaaa	720							
Db	661	agtgatactgagcagttgacccaatgtctgcacaaacctcccgctctatactccagggaaacacaaa	720							
QY	721	attgcactgggctcaaaacccggaactttccaagggaataatgaaaaacgtgaaagcaaaaacaaa	780							
Db	721	attgcactgggctcaaaacccggaactttccaagggaataatgaaaaacgtgaaagcaaaaacaaa	780							
QY	781	gacacgtgtctaaagaagcacaacagaaacatgtgtgaaccttcaaaagcagcagttgccctcagca	840							
Db	781	gacacgtgtctaaagaagcacaacagaaacatgtgtgaaccttcaaaagcagcagttgccctcagca	840							
QY	841	gggagccctgagggcattgtcctttaggaagggccagtttctttaaggaaatccttaagaatactc	900							
Db	841	gggagccctgagggcattgtcctttaggaagggccagtttctttaaggaaatccttaagaatactc	900							
QY	901	tgtgaaaggtcatalgaattttaaccattttaagatataaacaataatgagatgacataatcag	960							
Db	901	tgtgaaaggtcatalgaattttaaccattttaagatataaacaataatgagatgacataatcag	960							
QY	961	tttaagacatctgggtcccaatttataaagtcagagcaataaagatataacgtgtgccagctcc	1020							
Db	961	tttaagacatctgggtcccaatttataaagtcagagcaataaagatataacgtgtgccagctcc	1020							
QY	1021	ggatgtgtcagagaatactatagaatacactgtgtgtcccaatctcaacttttcaagaatgtatc	1080							
Db	1021	ggatgtgtcagagaatactatagaatacactgtgtgtcccaatctcaacttttcaagaatgtatc	1080							

QY	1081	tgcaatagccctcaacacacagagcccgatgtgtctctgacctacaaccacactacaaccacaa	1140
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QY	1141	gtctcccaaacatctgttaagctgtctctcaatgtaggtcccatctacaatgtccactctccc	1200
Db	1141	gtgtcccaaacatctgttaagctgtctctcaatgtaggtcccatctacaatgtccactctccc	1200
QY	1201	tgtagagcccatcccgctcccaaggagttccccaactagaactctctgatacagaagt	1260
Db	1201	tgtagagcccatcccgctcccaaggagttccccaactagaactctctgatacagaagt	1260
QY	1261	taacagcagaaagatccgttgagaggtcgtaggtctgtgtcttaacactaacctgtatgctctac	1320
Db	1261	taacagcagaaagatccgttgagaggtcgtaggtctgtgtcttaacactaacctgtatgctctac	1320
QY	1321	acctgagctcaacgcaaacctctctccccaaggtctcaagcaatctctctgtctcaagctcc	1380
Db	1321	acctgagctcaacgcaaacctctctccccaaggtctcaagcaatctctctgtctcaagctcc	1380
QY	1381	cgcgtatgcctggaactacaaggcgacgcccgcgttaattcttgatctgttaagtaagatggg	1440
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QY	1441	gtttccccaatatatagcccgccgtgtgtcttgaaacctccgaacctgaagtatccaccaacctc	1500
Db	1441	gtttccccaatatatagcccgccgtgtgtcttgaaacctccgaacctgaagtatccaccaacctc	1500
QY	1501	agctctccaaagctgcgtggagatctcaagacatgagttcaacgcgcgcggcccaagggtcgaagt	1560
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QY	1561	ctaaataagaaataaacttgaaatggtttacttaaaccaacagggaaacagacaagaactgtga	1620
Db	1561	ctaaataagaaataaacttgaaatggtttacttaaaccaacagggaaacagacaagaagaactgtga	1620
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Db	1801	ttccaattggggcscactctgtgtgtataggggggggggacataccccagagactcct	1860
QY	1861	tgaaagccccggcgaagaggtttccctctccagcttgaggggagccctgcgaagcaccccgggtccc	1920
Db	1861	tgaaagccccggcgaagaggtttccctctccagcttgaggggagccctgcgaagcaccccgggtccc	1920
QY	1921	tgagggtctcttgagcaaacctgcgcgaagcccggtgcgaactgtgttttgttatacactctctagg	1980
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QY	2041	tatttgagtactataatctctgcgcgaagaccgaagacaaaatggtgtgagcgaagaagctacgtcg	2100
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QY	2101	ccctaacctctgtgtgaggttgacagttctctcaatggaaagcgtgcagaaagaataataatagca	2160
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QY	2161	gccaacttaaaacccaagctgcgtgaagaagaaataaacaacacattctgaagaattgctgcgc	2220
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QY	2221	agcacaaccttaacaagaagccaaacctccctcagaagcccccctgcgtccccaatgcctgcgaag	2280
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QY	2581	gctgcgccagaaatgattcagctgattctcaagggcgctgcggagattctccgcttgctctccctgtagac	2640
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Qy 5280 ccaggaacctctcagcaagc 5300
Db 5280 ccaggaacctctcagcaagc 5300

RESULT 7
AAVS1363
ID AAVS1363 standard; DNA; 5300 BP.
XX
AC AAVS1363;
XX

DT 27-OCT-1998 (first entry)
XX Human TIGR promoter mutant TIGRmt2 DNA.
XX TIGR: trabecular meshwork induced glucocorticoid response protein: human;
KM dleognosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
OS Homo sapiens.
OS Synthetic.
XX Key Location/Qualifiers
FH mutation 4950 /tag= a
FT /note= "Wild-type C is replaced with T"
XX WO9832850-A1.
XX 30-JUL-1998.
XX 09-JAN-1998: 98WO-US00468.
XX 26-SEP-1997: 97US-0938669.
XX 28-JAN-1997: 97US-0791154.
XX (REGC) UNTY CALIFORNIA.
XX Chen H, Chen P, Nguyen TD, Polansky JR;
PI WPI: 1998-427946/36.
XX Use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX Disclosure: Fig 2; 105pp; English.
XX This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter mutant, TIGRmt2, which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX Sequence 5300 BP; 1482 A; 1151 C; 1235 G; 1432 T; 0 other;
SQ
Query Match 80.4%; Score 4957; DB 19; Length 5300;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

QY 361 atgagaccacaaatcaatgaataaggaaacagctcagaaaaaagtgttccaaattgg 420
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Db atgagaccacaaatcaatgaataaggaaacagctcagaaaaaagtgttccaaattgg 420
QY 421 taattagatattgttcctctgggaagagacccatctgtagcttgatggaaaaatggaa 480
|||||
Db taattagatattgttcctctgggaagagacccatctgtagcttgatggaaaaatggaa 480
QY 481 aaagctcaaaagatgatcgtatccagatcccaagtggtatattatcttaaaacagat 540
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QY 541 ggcatacctctggggagcgaagtcaggaagtcagtgatgagcaagagacatacaataac 600
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QY 781 gacatggttaaaaggcaacacagacatgtgagccttcaaaagcagatgcccctatgaa 840
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QY 841 gggaccctgagcattgtgctttagaagccagtttctttaaggaatttaagaaaccc 900
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QY 1081 tgcataagccctcaacacacagagcccgatgtgtcgtacccatacaacacatctcaacccaa 1140
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QY 1381 cgcgtagctgggagctacagcgccagccggtaatttttgatggttagagagaatgg 1440
|||||
Db cgcgtagctgggagctacagcgccagccggtaatttttgatggttagagagaatgg 1440

Qy	1441	g t c c a c a c a t a t t a a g c c g g c t g t c t t g a a c t c t g a c t a a g t t g a t t c a c c a c t c	1500
Dp	1441	g t t c t c a c c a t a t a t t a a g c c g g c t g t c t t g a a c t c t c g a c t c a a g t g a t t c a c c a c t c	1500
Qy	1501	a g c t c c t a a a g t g c t g g a t t e a c a g c a t g a t t c a c c g c c g c c g c a a g t t c a g t	1560
Dp	1501	a g c t c c t a a a g t g c t g g a t t e a c a g c a t g a t t c a c c g c c g c c a a g t t c a g t	1560
Qy	1561	t t a a t a a g a a t a a c t t g a a t t g t t a c t a a a c c a a c a g g a a a c a g a c a a a g t t g a	1620
Dp	1561	t t a a t a a g a a t a a c t t g a a t t g t t a c t a a a c c a a c a g g a a a c a g a c a a a g c t g a	1620
Qy	1621	t a a t t c a a g g a t t c t c t g g a t t g g a a t g t g t c c a t g a c t g c t c t g c t a t c c a g a c	1680
Dp	1621	t a a t t c a a g g a t t c t c t g g a t t g g a a t g t g t c c a t g a c t g c t c t g c t a t c c a g a c	1680
Qy	1681	c a c g g t c c c c a t c a c a c t t c t c c c c a c c c a t t t c a a g c t a a g t t a c a t t t a t	1740
Dp	1681	c a c g g t c c c c a t c a c a c t t c t c c c c a c c c a t t t c a a g c t a a g t t a c a t t t a t	1740
Qy	1741	c a c c a t g c t t t g t g t a a a g c c t c c a c a t c g t t a c t g a a t a a g a t t a c a t a a c t a g	1800
Dp	1741	c a c c a t g c t t t g t g t a a a g c c t c c a c a t c g t t a c t g a a t a a g a t t a c a t a a c t a g	1800
Qy	1801	t t c c a t t t g g g g c c a c t g t g t g t g t a t a a g g a g a g g a t a c c a c c a g a a c t c t	1860
Dp	1801	t t c c a t t t g g g g c c a c t g t g t g t g t a t a a g g a g a g g a t a c c a c c a g a a c t c t	1860
Qy	1861	t g a a g c c c c g g a g a g t t c t c t c c a a g c t g g g g a a c c t g a a a c a c c g g g t c c	1920
Dp	1861	t g a a g c c c c g g a g a g t t c t c t c c a a g c t g g g g a a c c t g a a a c a c c g g g t c c	1920
Qy	1921	t g g t g t c t c t g a a a a c t t g c a a g c c c g t g c a a c t g t g t t t t a t c a c t c t e a g	1980
Dp	1921	t g g t g t c t c t g a a a a c t c t g c a a g c c c g t g c a a c t g t g t t t t a t c a c t c t e a g	1980
Qy	1981	g a c c t g t g t c t c t a t t c t g t g t a c t g t a c t t c a t c a c a g g a t c a t t a g a a c t	2040
Dp	1981	g a c c t g t g t c t c t a t t c t g t g t a c t g t a c t t c a t c a c a g g a t c a t t a g a a c t	2040
Qy	2041	t a t g a a t a c t e t a t a t c t g c a a a c c a g a a a a g t g g a g c a a a g c a a g t c a c g c	2100
Dp	2041	t a t g a a t a c t e t a t a t c t g c a a a c c a g a a a a a g t g g a g c a a a g c a a g t c a c g c	2100
Qy	2101	c c t a c c c t c g t g g a g t g a a c a g t t c t c a t g g a a g c g t g c a g a a a a t t a a t a g c a	2160
Dp	2101	c c t a c c c t c g t g g a g t g a a c a g t t c t c a t g g a a g c g t g c a g a a a a t t a a t a g c a	2160
Qy	2161	g c c a a c t a a a c c c a g t c g a a a a g a a t a a a c a c a t c t t g a a g a t t g t g c g	2220
Dp	2161	g c c a a c t a a a c c c a g t c g a a a a g a a t a a a c a c a c t c t t g a a g a t t g t g c g	2220
Qy	2221	a g a t t c c c t t a a a a g c a c c c t c c t t a g c c c c t g t c t c t c a t c t g t g c c g a g g	2280
Dp	2221	a g a t t c c c t t a a a a g c a c c c t c c t t a g c c c c t g t c t c t c a t c t g t g c c g a g g	2280
Qy	2281	c c c c a a g c c c a g t c t c t c c a a g c c t c c t c c a t c a g t c a c a g c g t c g a c t g c c t	2340
Dp	2281	c c c c a a g c c c a g t c t c t c c a a g c c t c c t c c a t c a g t c a c a g c g t c g a c t g c c t	2340
Qy	2341	g c t c t g c t t c c g t g a a t c g t c t g t g a c t g a c t g a g a c t c c t t g c t c c a a g c t	2400
Dp	2341	g c t c t g c t t c c g t g a a t c g t c c t g t g a c t g a c t g a g a c t c c t t g c t c c a a g c t	2400
Qy	2401	c c a a a a a g a a a t g g a g a a a a a c a g t c t a a c g a a a t c t t g a a g g a g a c a g t t c	2460
Dp	2401	c c a a a a a g a a a t g g a g a a a a a c a g t c t a a c g a a a t c t t g a a g g a g a c a g t t c	2460
Qy	2461	c t c c a a g a a a a g g a g c t c c a c g t c c a a g a g a a t t c c a g a g g t t g g a a c t g c a g a g	2520
Dp	2461	c t c c a a g a a a a g g a g c t c c a a g t c c a a g a g a a t t c c a g a g g t t g g a a c t g c a g a g	2520
Qy	2521	t g g g a a g c t g a g g c t g a g c g g t g c t g a a a g c a g a a g t t g a a a a g c a a g c t g a a	2580

Dd	2521	tgvggagcgcugvggcgcgaaacggg	tgccgaaagccgaggaagtcgaaagggcgcgaa	2580
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ID	AAVS1365 standard; DNA: 5300 BP.		
AC	AAVS1365;		
XX			
DT	27-OCT-1998 (first entry)		
XX			
DE	Human TIGR promoter mutant TIGRmt4 DNA.		
XX			
KW	TIGR; trabecular meshwork induced glucocorticoid response protein; human;		
KM	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.		
XX			
OS	Homo sapiens.		
XX			
XX	Synthetic.		
XX			
FH	Key		
FT	mutation		
FT	4256		
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XX	98WO-US00468.		
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XX	26-SEP-1997;		
XX	97US-0938669.		
XX	28-JAN-1997;		
XX	97US-0791154.		
XX			
XX	(REGC) UNIV CALIFORNIA.		

XX
PI Chen H, Chen P, Nguyen TD, Polansky JR:
XX
DR WPI: 1998-427946/36.
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
PS Disclosure: Fig 2; 105pp; English.
XX
CC This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter mutant, TIGRm14, which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
SQ Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other;

Query Match 80.4%; Score 4957; DB 19; Length 5300;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

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Dd	5220	ggctccccagatatataataacctctcttgagctcgtggcatgatgacgaaggccacct	5279
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RESULT 9			
ID	AAVS1366		
AAVS1366 standard; DNA; 5300 BP.			
XX	AAVS1366;		
XX	AC		
XX	27-OCT-1998 (first entry)		
XX	DE	Human TIGR promoter mutant TIGRmt5 DNA.	
XX	KW	TIGR; trabecular meshwork induced glucocorticoid response protein; human;	
XX	RW	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.	
OS	Homo sapiens.		
OS	Synthetic.		
FH	Key	Location/Qualifiers	
FT	mutation	4262	
FT	/tag=	a	
FT	/note=	"Wild-type G is replaced with A"	
PN	WN09832850-A1.		
PD	30-JUL-1998.		
XX	PF	09-JAN-1998;	98WO-US00468.
XX	PR	26-SEP-1997;	97US-0938669.
XX	PR	28-JUN-1997;	97US-0791154.
PA	(REGC) UNIV CALIFORNIA.		
PI	Chen H, Chen P, Nguyen TD, Polansky JR;		
DR	WPI; 1998-427946/36.		
PT	Use of TIGR nucleic acid sequences - used for, e.g., developing		
PS	products for diagnosis, prognosis and treatment of glaucoma		
PS	Disclosure: Fig 2; 105pp; English.		
CC	This sequence is a trabecular meshwork induced glucocorticoid response		
CC	protein (TIGR) promoter mutant, TIGRmt5, which is used in a method for		
CC	diagnosing glaucoma in a patient. The method involves the detection of		
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR		
CC	response in the patient and can be diagnostic of glaucoma or steroid		
CC	sensitivity. Base substitutions and base additions upstream of and within		
CC	TIGR exons can also be used to diagnose glaucoma.		
SO	Sequence 5300 BP; 1483 A; 1152 C; 1234 G; 1431 T; 0 other;		

Query Match 80.4%; Score 4957; DB 19; Length 5300;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

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OY	61	tcctctaaacgctcttaagctccatctcgagctgtatgctcttgagaggaatgataaagatca	120
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OY	181	cagatgctgtccctccgacagagaagctatctcttcagtgaaacatcacatccaatatgtaaatc	240
Dp	181	cagatgctgtccctccgacagagaagctatctcttcagtgaaacatcacatccaatatgtaaatc	240
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Dp	1021	ggatagagctcagaaatactatgaaatacaatcgtctcccaatcccaaatcttctcagaatgact	1080
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Db 5280 ccaaggacactctgcagcacagc 5300
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RESULT 10
AAVS1367
ID AAVS1367 standard; DNA; 5300 BP.
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XX AAVS1367;
XX
XX 27-Oct-1998 (first entry)
XX
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```
DE Human TIGR promoter variant TIGRsv1 DNA.
XX
XX TIGR; trabecular meshwork induced glucocorticoid response protein; human;
KM diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX
OS Homo sapiens.
XX Synthetic.
XX
XX Key Location/Qualifiers
XX mutation 4406 /tag= a
XX FT /note= "Wild-type A is replaced by G"
XX
XX PN W09832850-A1.
XX
XX PD 30-JUL-1998.
XX
XX PF 09-JAN-1998; 98WO-US00468.
XX
XX PR 26-SEP-1997; 97US-0938669.
XX PR 28-JAN-1997; 97US-0791154.
XX
XX PA (REGC ) UNTV CALIFORNIA.
XX
XX PI Chen H, Chen P, Nguyen TD, Polansky JR;
XX
XX DR WPI; 1998-427946/36.
XX
XX PT Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX
XX PS Disclosure; Fig 2; 105pp; English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
XX protein (TIGR) promoter variant, TIGRsv1, which is used in a method for
XX diagnosing glaucoma in a patient. The method involves the detection of
XX polymorphisms whose presence is predictive of a mutation affecting TIGR
XX response in the patient and can be diagnostic of glaucoma or steroid
XX sensitivity. Base substitutions and base additions upstream of and within
XX TIGR exons can also be used to diagnose glaucoma.
XX
XX SQ Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other;

Query Match 80.4%; Score 4957; DB 19; Length 5300;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

OY 1 atcttgttcagtttaacctcagggctatataatgaatgagaataaccatgtgaaag 60
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Qy	3661	gacgtaactgagcgtcgttaagaattactagtttctctctattatagaacctcttttctcgt	3722
Db	3661	gtagtaactgagcgtcgttaagaattactagtttctctctattatagaacctcttttctcgt	3720
Qy	3721	ggaagttagcaacacagaggcaaccggttctctttaacaggaagaaacatctccaag	3780
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Db 5280 ccaggcacctctcagcacagc 5300

RESULT 11
AAV51364
ID AAV51364 standard; DNA; 5304 BP.
XX
AC AAV51364;
XX
DT 27-OCT-1998 (first entry)
XX
DE Human TIGR promoter mutant TIGRmt3 DNA.
XX
KM TIGR: trabecular meshwork induced glucocorticoid response protein; human;
XX
KM diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX
OS Homo sapiens.
XX
OS Synthetic.
XX
XX
FH Key Location/Qualifiers
FT mutation /tag= a
FT mutation /note= "Wild-type TG is replaced with TGTGTG"
XX
PN WO9832850-A1.
XX
PD 30-JUL-1998.
XX
PE 09-JAN-1998; 98WO-US00468.
XX
PR 26-SEP-1997; 97US-0938669.
PR 28-JAN-1997; 97US-0791154.
XX
PA (REGC ) UNIV CALIFORNIA.
XX
PI Chen H, Chen P, Nguyen TD, Polansky JR;
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XX
DR WPI: 1998-427946/36.
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX
PS Disclosure; Fig 2; 105pp; English.
XX
CC This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter mutant, TIGRmt3, which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX
SQ Sequence 5304 BP; 1482 A; 1152 C; 1237 G; 1433 T; 0 other;

Query Match 76.7%; Score 4731; DB 19; Length 5304;
Best Local Similarity 99.9%; Pred. NO. 0;
Matches 5021; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

QY 1 atcttgctcagttactcagggctatattgaatgaaatgagataaccaatgctgaag 60
Db 1 atcttgctcagttactcagggctatattgaatgaaatgagataaccaatgctgaag 60
QY 61 tctcataaactgtatagctccatctcgatgatatgctcttgccagatgataaagaatca 120
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Qy 901 ttgaagagatcatgaatttaacatttaacatttaaaacaaatctcgatgcatatcag 960
Db 901 ttgaagagatcatgaatttaacatttaacatttaaaacaaatctcgatgcatatcag 960
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Qy 1861 tgaagcccccgagaggttctctctccagctgaggagcccttgcaagacccggggtcc 1920
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Qy 1921 tgggtgtcttgagcaacttgccagccgtgacatctgtgttctgtatcatctctcagg 1980
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Qy 1981 gacctgtgtct 2040
Db 1981 gacctgtgtct 2040
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RESULT 12
AAAS7485
ID AAAS7485 standard; DNA: 5304 BP.
XX
AC AAAS7485;

XX 20-OCT-2000 (first entry)
XX A TIGR (I trabecular meshwork inducible glucocorticoid receptor) promoter.
XX TIGR: trabecular meshwork inducible glucocorticoid receptor; promoter;
XX glaucoma; steroid sensitivity; progressive ocular hypertension;
XX vision loss; ss.
OS Homo sapiens.
XX
XX Key Location/Qualifiers
XX mutation replace (4337, G)
XX /tag= a
XX /note= "TIGRm1 mutant"
XX mutation replace (4950, T)
XX /tag= b
XX /note= "TIGRm2 mutant"
XX mutation 4998
XX /tag= c
XX /note= "GTGT added to produce TIGRm3 mutant"
XX mutation replace (4256, G)
XX /tag= d
XX /note= "TIGRm4 mutant"
XX mutation replace (5117, C)
XX /tag= e
XX /note= "TIGRm11 mutant"
XX
XX WO200042220-A1.
XX
XX 20-JUL-2000.
XX
XX 11-JAN-2000: 2000WO-US00559.
XX
XX 11-JAN-1999: 99US-0227881.
XX 07-MAY-1999: 99US-0306828.
XX
XX (REGC) UNTV CALIFORNIA.
XX
XX Nguyen TD, Polansky JR, Chen P, Chen H;
XX
XX WPI: 2000-491060/43.
XX
XX Diagnosis, prognosis and treatment of glaucoma, based on detecting
XX specific polymorphisms in the promoter of the trabecular meshwork
XX inducible glucocorticoid receptor gene .
XX
XX Claim 79: Fig 2A-E: 122pp; English.
XX
XX The present sequence represents a sequence variant of the TIGR
XX (trabecular meshwork inducible glucocorticoid receptor) promoter.
XX The specification describes a method for the diagnosis, prognosis
XX and treatment of glaucoma, based on detecting specific polymorphisms
XX in the promoter of the TIGR gene. The method is used for diagnosis
XX and prognosis of glaucoma (of all types), steroid sensitivity
XX and progressive ocular hypertension that leads to loss of vision.
XX Glaucoma can be treated by administering an agent that binds to
XX cis-acting elements within the TIGR promoter. The TIGR promoter (or
XX other regulatory regions) can be used to express homologous or
XX heterologous genes, particularly for tissue-specific expression of
XX therapeutic transgenes for treating glaucoma, also to generate
XX transgenic animals and in screening for compounds (specific modulators)
XX with diagnostic or therapeutic potential. Fragments of the TIGR
XX sequence can be used as amplification primers or probes, e.g. for
XX isolating related sequences in non-human animals.
XX
XX Sequence 5304 BP: 1481 A; 1150 C; 1239 G; 1434 T; 0 other:

Query Match 72.6%; Score 4476; DB 21; Length 5304;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 5016; Conservative 0; Mismatches 6; Indels 2; Gaps 2;

QY 1 acctgtgtcagttaccctcagggtcattatgaaatgaaatgaaatcaccatgtgaaag 60
DB 1 acctgtgtcagttaccctcagggtcattatgaaatgaaatgaaatcaccatgtgaaag 60
QY 61 tccataaactgtatagcccccattcgatgtatgtcttggcagatgataagaatca 120
DB 61 tccataaactgtatagcccccattcgatgtatgtcttggcagatgataagaatca 120
QY 121 ggaagaaggagttaccagtttagcgaagtgtccaggctgtgtcgtccttattgtga 180
DB 121 ggaagaaggagttaccagtttagcgaagtgtccaggctgtgtcgtccttattgtga 180
QY 181 cagatgtgtcctcgtgacagaagatcttctcaggaaacatcacatcgaatgtatc 240
DB 181 cagatgtgtcctcgtgacagaagatcttctcaggaaacatcacatcgaatgtatc 240
QY 241 catcaaacggagctaaagaacagatgaaatgggacacttgcacagaataatgccag 300
DB 241 catcaaacggagctaaagaacagatgaaatgggacacttgcacagaataatgccag 300
QY 301 gaagacaataatgataaataaacttcccttgttttaatttcaggaaaaaatg 360
DB 301 gaagacaataatgataaataaacttcccttgttttaatttcaggaaaaaatg 360
QY 361 atgaggaccaaatacgaataaggaataacagctcagaataaagatgttccaaatgg 420
DB 361 atgaggaccaaatacgaataaggaataacagctcagaataaagatgttccaaatgg 420
QY 421 taatgaatattgtctccttggaaagacccctcagtgtgacttgaatggaaatggaa 480
DB 421 taatgaatattgtctccttggaaagacccctcagtgtgacttgaatggaaatggaa 480
QY 481 aaacgtcaaaagcatgatctgatacagatcccaagtgatattatcttaaaacagat 540
DB 481 aaacgtcaaaagcatgatctgatacagatcccaagtgatattatcttaaaacagat 540
QY 541 ggcatacctctggggagggcaagttcaggaaagtcaltgttaagaaagacatacaataac 600
DB 541 ggcatacctctggggagggcaagttcaggaaagtcaltgttaagaaagacatacaataac 600
QY 601 agcaaaatcaaaatctccgaaatgcaggaaatgggagcttggaaagcttctaac 660
DB 601 agcaaaatcaaaatctccgaaatgcaggaaatgggagcttggaaagcttctaac 660
QY 661 agtgattagcagttgacatgttcgcaacacctccctcctatccaggagacaacaa 720
DB 661 agtgattagcagttgacatgttcgcaacacctccctcctatccaggagacaacaa 720
QY 721 attgactgggtcgaagccttgaccttcaaggaaatatagaaactgagagcaaaacaa 780
DB 721 attgactgggtcgaagccttgaccttcaaggaaatatagaaactgagagcaaaacaa 780
QY 781 gacatggttaaaaggcaacacagacatgtgagccttcaaaacagcagtgccccacga 840
DB 781 gacatggttaaaaggcaacacagacatgtgagccttcaaaacagcagtgccccacga 840
QY 841 gggaccctgagcatttgcctttagaaggcagcttcttaaggaaatcttaaggaaac 900
DB 841 gggaccctgagcatttgcctttagaaggcagcttcttaaggaaatcttaaggaaac 900
QY 901 ttgaagaatcatalgaatttaaacatttaagataaataaataatgagatgataatcag 960
DB 901 ttgaagaatcatalgaatttaaacatttaagataaataaataatgagatgataatcag 960
QY 961 tttaagaatgggtcccaatttataaagtcaggaatcacaagaataagtggtccagctcc 1020
DB 961 tttaagaatgggtcccaatttataaagtcaggaatcacaagaataagtggtccagctcc 1020
QY 1021 ggaatggtcagaataatcattagaataacactgtgtcccatcttaacttttcagaatgtc 1080
DB 1021 ggaatggtcagaataatcattagaataacactgtgtcccatcttaacttttcagaatgtc 1080
QY 1081 tgcataagccctcacacacagcccgatgtgtcgtacctataacacatacttaacaccca 1140

[illegible]

Db	2161	gccaacttlaaacccagctgctcgaaagaagaagaaataaacaacactcttgaaagaaatgctgcgc	2220
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Db	2221	agcactcccttlaaacaagaagccacactccctctaaagcccccctgcctcctcaactgcctgcgcgagag	2280
Qy	2281	cccccaagcccgagctctccaagcctcctcctccactcaagctcagcctgcagcctgcgcct	2340
Db	2281	cccccaagcccgagctctccaagcctcctcctccactcaagctcagcctgcagcctgcgcct	2340
Qy	2341	gcccctgcctcccccgcgaaatctgctccctgctgaactcagctcagcaaacctccttgctccaaagct	2400
Db	2341	gcccctgcctcccccgcgaaatctgctccctgctgaactcagctcagcaaacctccttgctccaaagct	2400
Qy	2401	ccgaagaagaaatctgaagaaggaagaaactaagcttaaacgagagaaactctgagagagagagagcttc	2460
Db	2401	ccgaagaagaaatctgaagaaggaagaaactaagcttaaacgagagaaactctgagagagagagagcttc	2460
Qy	2461	ctcagaagaggaagagagagcctccacagctcccaagagaaatctcaagagctgagagagctgcagagag	2520
Db	2461	ctcagaagaggaagagagagcctccacagctcccaagagaaatctcaagagagctgagagagctgcagagag	2520
Qy	2521	tcggagagagctgcgagagctgcagagcgggtgcctgcgaagagcagagaaagctgcgaagagcgcgaag	2580
Db	2521	tcggagagagctgcgagagctgcagagcgggtgcctgcgaagagcagagaaagctgcgaagagcgcgaag	2580
Qy	2581	gcctccccaagagatctcaagtgcctctcaacggagcgcggagagacttcctccgtctcctcctgcagagc	2640
Db	2581	gcctccccaagagatctcaagtgcctctcaacggagcgcggagagacttcctccgtctcctcctgcagagc	2640
Qy	2641	ctcttctatcctctccctgcagctgcgagagagagaaagctcaactctcaatgaagaagagatgcagcttc	2700
Db	2641	ctcttctatcctctccctgcagctgcgagagagagaaagctcaactctcaatgaagaagagatgcagcttc	2700
Qy	2701	ataaagctcagcgtctgataaataatccaagagctgcgcagctgtcttcctccccaagagcctctat	2760
Db	2701	ataaagctcagcgtctgataaataatccaagagctgcgcagctgtcttcctccccaagagcctctat	2760
Qy	2761	ctaaagagaaataatgagagagagagactcaactctcccaagcgcgttaactcaacgagaaagagctgac	2820
Db	2761	ctaaagagaaataatgagagagagagagactcaactctcccaagcgcgttaactcaacgagaaagagctgac	2820
Qy	2821	tcgagctctctctctctcaatgctctctctgcgacaaactacacagacccctgcgtgcagactgcgctta	2880
Db	2821	tcgagctctctctctctcaatgctctctctgcgacaaactacacagacccctgcgtgcagactgcgctta	2880
Qy	2881	tcgaagaagcgtgcgaataaacctctggaatacgaagagactcgtctctctctctgcgtctgcgctcaat	2940
Db	2881	tcgaagaagcgtgcgaataaacctctggaatacgaagagactcgtctctctctctgcgtctgcgctcaat	2940
Qy	2941	ggttcgagcgtgcgagacccgttcggagagagctgcctctcctcccttcggagcaatgctctcctgcgt	3000
Db	2941	ggttcgagcgtgcgagacccgttcggagagagctgcctctcctcccttcggagcaatgctctcctgcgt	3000
Qy	3001	ataaagaacccctgcgaagctccgcgtctcgtgcgaacactctccctgcgtatctcctgcgtgcagag	3060
Db	3001	ataaagaacccctgcgaagctccgcgtctcgtgcgaacactctccctgcgtatctcctgcgtgcagag	3060
Qy	3061	ggaatgctgcgaagaggaagagagagagagctgcgaagcagctgcagacacagagggaggtgcagag	3120
Db	3061	ggaatgctgcgaagaggaagagagagagagagctgcgaagcagctgcagacacagagggaggtgcagag	3120
Qy	3121	ggaacagaggaagcagagcagagaagcgcgggtgcctccactcaagctccactgcagactcagagctc	3180
Db	3121	ggaacagaggaagcagagcagagaagcgcgggtgcctccactcaagctccactgcagactcagagctc	3180
Qy	3181	cagagccgaagagcacaataatctccaagaagagctccaaatgaaccacaacagccacaactcttcct	3240
Db	3181	cagagccgaagagcacaataatctccaagaagagctccaaatgaaccacaacagccacaactcttcct	3240
Qy	3241	tcacctaaagctagaacaaatgagcattctgcacaaataaccaaagaatgcagagagactaaactgcgt	3300
Db	3241	tcacctaaagctagaacaaatgagcattctgcacaaataaccaaagaatgcagagagactaaactgcgt	3300

QY 3301 gtagcttctgctgctgcatccaacacctggccagagcaagctggaaaaatgcagagatg 3360
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Db 3301 gtagcttctgctgctgcatccaacacctggccagagcaagctggaaaaatgcagagatg 3360
QY 3361 ttaaaccttccaacctgaacacgacacccacgacgtcagcagtgactgcgcagacgag 3420
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QY 3481 acagatctcatcaagggcagctgggaattgaaccaaggaattatagtcacagtcgac 3540
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QY 4020 cagcttggaataatcttaactcacaagatctgacactgtgtgtgtatctaaacaataaag 4079
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Db 4020 cagcttggaataatcttaactcacaagatctgacactgtgtgtgtgtatctaaacaataaag 4079
QY 4080 tgcgtcaaaagcaatactatctcaagtgagcttaagtaactctcgaagcttctgtata 4139
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Db 4080 tgcgtcaaaagcaatactatctcaagtgagcttaagtaactctcgaagcttctgtata 4139
QY 4140 tttatctgacatctgcacatctgtcttcttctcctctgggtttatataatgaagca 4199
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QY 4200 gggagataaactaactcagctccagaagcctgtgaattgaaatgagggaaaaatatacatc 4259
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Db 4200 gggagataaactaactcagctccagaagcctgtgaattgaaatgagggaaaaatatacatc 4259
QY 4260 ttgtttttaaaccacctcttaactaaatttaacattatctcactctgcgaatagagcataa 4319
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Db 4260 ttgtttttaaaccacctcttaactaaatttaacattatctcactctgcgaatagagcataa 4319
QY 4320 acccaagtgtaataacagctacgttgacttgctgaacttaacaaatagaatccagacat 4379
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Db 4320 acccaagtgtaataacagctacgttgacttgctgaacttaacaaatagaatccagacat 4379

QY 4380 ttatactatactaacagctgtctgcagaatacgtctgtaagtgaaatatttatactccaact 4439
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Db 4380 ttatactatactaacagctgtctgcagaatacgtctgtaagtgaaatatttatactccaact 4439
QY 4440 accttgaatactgaacctccctgcgtgactgtgttttaactattataaataactgtttaa 4499
4440 accttgaatactgaacctccctgcgtgactgtgttttaactattataaataactgtttaa 4499
QY 4500 aatttgatatcttgataaatacattatcattatcaatctgttcttcottgtatactatact 4559
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Db 4500 aatttgatatcttgataaatacattatcattatcaatctgttcttcottgtatactatact 4559
QY 4560 tatatacttgaaaaacatcttctgaagaaggtccccaagattccaacatgaggtctctg 4619
4560 tatatacttgaaaaacatcttctgaagaaggtccccaagattccaacatgaggtctctg 4619
QY 4620 gcatgacacacacacaggtgaagaactgatttaagaagcttaacatctgtgtgcctgag 4679
|||||
Db 4620 gcatgacacacacacaggtgaagaactgatttaagaagcttaacatctgtgtgcctgag 4679
QY 4680 atgcaagactgaaattgaagaagttctcccaagaatacacagctgttttaagctagaaggt 4739
|||||
Db 4680 atgcaagactgaaattgaagaagttctcccaagaatacacagctgttttaagctagaaggt 4739
QY 4740 gaggggggaaatctgcgcgtctcctaaggaatgctctccctggaagcctgtgaaggtcgt 4799
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Db 4740 gaggggggaaatctgcgcgtctcctaaggaatgctctccctggaagcctgtgaaggtcgt 4799
QY 4800 cctgtgtcttgcgtgcgtcttatttctctcgtctccctgttaagcttaaggaactgtt 4859
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Db 4800 cctgtgtcttgcgtgcgtcttatttctctcgtctccctgttaagcttaaggaactgtt 4859
QY 4860 ttgattccagttccctagcaatgctgcctggcacagtgacagtgctccaatgatttgaga 4919
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Db 4860 ttgattccagttccctagcaatgctgcctggcacagtgacagtgctccaatgatttgaga 4919
QY 4920 gtgaatggaataataaactgaataatatactctgttgaatactgacacacacagtaactgt 4979
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Db 4920 gtgaatggaataataaactgaataatatactctgttgaatactgacacacacagtaactgt 4979
QY 4980 gtgttaagtgctgtgaagtgctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5023
|||||
Db 4980 gtgttaagtgctgtgaagtgctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5023

RESULT 13
AAZ37968
ID AAZ37968 standard; DNA: 2800 BP.
XX
AC AAZ37968;
XX
DT 07-FEB-2000 (first entry)
XX
DE Human GLCIA gene exon 1 and flanking sequences.
XX
KW Glaucoma; PCR amplification; primary open wide angle glaucoma;
KW GLCIA gene; exon; human; ss.
XX
OS Homo sapiens.
XX
PN W09951779-A2.
PN
PD 14-OCT-1999.
PD
PF 07-APR-1999: 99WO-0507671.
PF
PR 07-APR-1998: 98US-0056285.
PR
PA (IOWA) UNIV IOWA RES FOUND.
PA
PI Stone EM, Sheffield VC, Alward WLM, Flingert J;
PI
XX
XX WPI: 2000-022956/02.
DR

XX Determination of a predisposition to gliucoma by analysing mutations in
PT the GLCIA gene -
XX
XX PS Disclosure; Fig 1A; 137pp; English.
XX
CC The invention relates to a method for the determination of a
CC predisposition to gliucoma. The method comprises amplifying a GLCIA gene
CC with a primer pair selected from the sequences shown in AA437961-738008.
CC The primers are used to determine whether a subject has or has the
CC potential to develop primary open wide angle gliucoma. The present
CC sequence represents the human GLCIA gene exon 1 and flanking sequences.
XX
SQ Sequence 2800 BP; 781 A; 588 C; 673 G; 758 T; 0 other;

Query Match 37.0%; Score 2285; DB 21; Length 2800;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2575; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

QY 3450 aaaaagagagatagtgatagagcaagaagaagatcattcacaaggcagtggaattg 3509
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DB 19 aaaaagagagatagtgatagcaagaagaagatcattcacaaggcagtggaattg 78
|||
QY 3510 acccaaggatataagtcacagtgatccctgggtcttagaggcagggtatatttgagg 3569
|||
DB 79 acccaaggatataagtcacagtgatccctgggtcttagaggcagggtatatttgagg 138
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QY 3570 ggaaaaaacagtcacaaggagagtcggagacctgattctcaatactatcttccctt 3629
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DB 139 ggaaaaaacagtcacaaggagagtcggagacctgattctcaatactatcttccctt 198
|||
QY 3630 acaagcgcgaagatcttgagcaaatcacaagtgatgaactgaagctgtaaatcctag 3689
|||
DB 199 acaagcgcgaagatcttgagcaaatcacaagtgatgaactgaagctgtaaatcctag 258
|||
QY 3690 ttctcccttaataagaaactcttctctctgctggaagttagcagcaaaagggaatccgtt 3749
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DB 259 ttctcccttaataagaaactcttctctctgctggaagttagcagcaaaagggaatccgtt 318
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QY 3750 tcttttaacaggaagaaacaattcctaagagtaaaagccaacagatltcaagcctagctt 3809
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DB 319 tcttttaacaggaagaaacaattcctaagagtaaaagccaacagatltcaagcctagctt 378
|||
QY 3810 tgcgcgactatgtgtgtgtttttgaaaaaatcattcagcgatgtttctactcgtattca 3869
|||
DB 379 tgcgcgactatgtgtgtgtttttgaaaaaatcattcagcgatgtttctactcgtattca 438
|||
QY 3870 gaaaatggaactagtaacctgtgttcagctgttaacaaaccccagtggttaagtctca 3929
|||
DB 439 gaaaatggaactagtaacctgtgttcagctgttaacaaaccccagtggttaagtctca 498
|||
QY 3930 agtctaggtcttaactgcaagaaccaatcaaa--aagaatagaatctttagagaanaactgct 3988
|||
DB 499 agtctaggtcttaactgcaagaaccaatcaaaatagaatagtaactttagagaanaactgct 558
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QY 3989 ttctcccaactctggagtggaatctgcgcaggcaggtttggaatatattctctcaagaatc 4048
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DB 559 ttctcccaactctggagtggaatctgcgcaggcaggtttggaatatattctctcaagaatc 617
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DB 618 tgaacactgtctgtgtaatacaacataaagtctgtcaaaaggcaatcttaatttcaaatg 677
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DB 678 gcttaaaagttaactctgcagacttctgtaatacttaattgctatttgcaattgcttttctg 737
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QY 4169 ttcttctctctgggtgttcttaagttaaaagcaggatatacttaactacagctccagaagcc 4228
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DB 738 ttcttctctctgggtgttcttaagttaaaagcaggatatacttaactacagctccagaagcc 797
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DB 798 tctgtaattggaatgagaaaaaatatacatcttctgttcttaccaccttcaacttaattta 857
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QY 4289 acatttataccatctgcaatagagccaataactcaaaagtgtgtaataacagtaacctgtga 4348
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DB 858 acatttataccatctgcaatagagccaataactcaaaagtgtgtaataacagtaacctgtga 917
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QY 4349 ttctgtctatcccaatgaaatcaacagacatttctatactataatcaatcagttgttgcaata 4408
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DB 918 ttctgtctatcccaatgaaatcaacagacatttctatactataatcaatcagttgttgcaata 977
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QY 4409 cgttgtaagtgaaatattataccaacaaactctgtaaatcttagaacctccgcgtggaact 4468
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DB 978 cgttgtaagtgaaatattataccaacaaactctgtaaatcttagaacctccgcgtggaact 1037
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QY 4469 tcttttaacatatataaacaactgttttaaaatttgatacttctgataatcaatctca 4528
|||
DB 1038 tcttttaacatatataaacaactgttttaaaatttgatacttctgataatcaatctca 1097
|||
QY 4529 ttatcaattgttctcttgtaatactataatttataatattgaaanaacattctcgagaag 4588
|||
DB 1098 ttatcaattgttctcttgtaatactataatttataatattgaaanaacattctcgagaag 1157
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QY 4589 agtccccaagatttcaaccaatgaaagtctctggcatgcaacacacagagtaagaactgat 4648
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DB 1158 agtccccaagatttcaaccaatgaaagtctctggcatgcaacacacagagtaagaactgat 1217
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QY 4649 ttgagagcttaacatgtaacattgtgtcctgagaatgcaaaactgtaaaattctctccc 4708
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DB 1218 ttgagagcttaacatgtaacattgtgtcctgagaatgcaaaactgtaaaattctctccc 1277
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DB 1278 aagaatacaacgttgttttaaaagcagggtgagagggggaaatctgcgcgtcttataaga 1337
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QY 4769 atgcctcccccggagacccggtgaagggtgctgtccctgtgtctctggtcgtgcttattcttc 4828
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DB 1338 atgcctcccccggagacccggtgaagggtgctgtccctgtgtctctggtcgtgcttattcttc 1397
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QY 4829 tctgtccctgtacagcttctaagaagactgtgttggaatctccagcttctcagatagtgccctg 4888
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QY 4889 gcaacgtgcaaggttctcaatgaagtttgcagaagtgtgaatggaatataaactggaatatat 4948
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DB 1458 gcaacgtgcaaggttctcaatgaagtttgcagaagtgtgaatggaatataaactggaatatat 1517
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DB 1518 ccttgttaaaatcaagcaacacagtagctcgtgtgaagtgtgtgtgaagtgtgtgtgtg 1577
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QY 5009 tctgtgtgtgtgtgttaaaacaggtgtagaataaagaactatacttgggtataggtgca 5068
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Db 375 ccagccatgctcagctcattccattcaacttaacttaacagagacgagccagccacccacgcttagacct 434
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Db 855 tccagggctccctgcgc 870

RESULT 15
AAV51391
ID AAV51391 standard; cDNA: 1548 BP.
XX AC AAV51391;
XX DT 27-OCT-1998 (first entry)
XX DE Human TIGR cDNA.
XX KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;
XX KW diagnosis: glaucoma; polymorphism: steroid sensitivity; ss.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT CDS 37..1548
XX FT /*tag= a
XX FT /product= TIGR
XX PN MO9832850-A1.
XX PD 30-JUL-1998.
XX PF 09-JAN-1998; 98MO-US00468.
XX PR 26-SEP-1997; 97US-0938669.
XX PR 28-JAN-1997; 97US-0791154.
XX PA (REGC ) UNIV CALIFORNIA.
XX PI Chen H, Chen P, Nguyen TD, Polansky JR;
XX DR WPI: 1998-427946/36.
XX DR P-PSDB: AAW64669.
XX PT Use of TIGR nucleic acid sequences - used for, e.g. developing
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PT products for diagnosis, prognosis and treatment of glaucoma
XX Claim 48; Fig 7; 105pp; English.
PS This cDNA sequence encodes a novel human trabecular meshwork induced
XX glucocorticoid response protein (TIGR) which is used in a method for
XX diagnosing glaucoma in a patient. The method involves the detection of
XX polymorphisms whose presence is predictive of a mutation affecting TIGR
XX response in the patient and can be diagnostic of glaucoma or steroid
XX sensitivity. Base substitutions and base additions upstream of and within
XX TIGR exons can also be used to diagnose glaucoma.
SO Sequence 1548 BP; 402 A; 418 C; 431 G; 297 T; 0 other;

Query Match 10.4%; Score 640; DB 19; Length 1548;
Best Local Similarity 100.0%; Pred. No. 3e-287;
Matches 640; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 5301 agagcttccagaggaagccctcaccagcctctgcaatgaggtctctctgtgcagcttgc 5360
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